Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Submitted for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	1	of	3

Complete if Known	
Application Number	10/689,982
Filing Date	October 21, 2003
First Named Inventor	LaColla *et al.*
Group Art Unit	1614
Examiner	Unassigned
Attorney Docket Number	06171.105003 IDX 1003 CON

344505-1_2.DOC

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. [1]	U.S. Patent Document Number	Kind Code [2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear
VB	AA	3,956,302	A	Hunter *et al.*	05-11-1976	
VB	AB	5,747,500	A	Son *et al.*	05-05-1998	
VM	AC	5,914,402	A	Choi *et al.*	06-22-1999	
VM	AD	5,998,411	A	Vig *et al.*	12-07-1999	
VM	AE	6,117,904	A	Murphy *et al.*	09-12-2000	
VB	AF	6,136,335	A	Uckun *et al.*	10-24-2000	
VB	AG	6,177,437	B1	Wright	06-23-2001	
VB	AH	6,376,504	B1	Uckun *et al.*	04-23-2002	
VM	AI	2002/0193415	A1	LaColla *et al.*	12-19-2002	
VM	AJ	6,545,007	B1	Sommadossi *et al.*	04-08-2003	
VM	AK	6,635,636	B1	LaColla *et al.*	10-21-2002	
VM	AL	2003/0225114	A1	Sommadossi *et al.*	12-04-2003	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. [1]	Foreign Patent Document Office [3]	Number	Kind Code [4] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
VM	AM	EP	0,469,685	A1	Shell Int. Res. Maatsch., (Carter *et al., Chem. Abstr.*, 116:194341)	02-05-1992		
VM	AN	WO	91/18887	A1	Smith-Kline Beecham (Ife *et al., Chem Abstr.*, 116:128961)	12-12-1991		
VM	AO	WO	92/16201	A1	E.B. Michaels Res. Assoc. Inc.	09-12-2000		
VM	AP	WO	95/18109 (PCT/KR94/00178)	A1	Korea Res. Inst. of Chem. Techn.	07-06-1995		
VM	AQ	WO	97/43266 (PCT/KR97/00084)	A1	Korea Res. Inst. of Chem. Techn.	11-20-1997		
VM	AR	WO	97/44342 (PCT/KR97/00074)	A1	Korea Res. Inst. of Chem. Techn.	11-27-1997		
VM	AS	WO	00/03998	A1	Novirio Pharmaceuticals (Idenix)	01-27-2000		

Examiner Signature	V. Balasubramanian	Date Considered	9/4/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → ⊞

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Submitted for form 1449/PTO				*Complete if Known*	
				Application Number	10/689,982
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	October 21, 2003
				First Named Inventor	LaColla *et al.*
				Group Art Unit	1614
				Examiner	Unassigned
Sheet	2	of	3	Attorney Docket Number	06171.105003 IDX 1003 CON

3445054_2.DOC

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
VM	BA	AROYAN, A.A., *et al.*, "Pyrimidine derivatives. Substituted 6-(4'-alkoxybenzyl)pyrimidines," *Arm. Khim. Zh.*, 24(2):161-166 (1971), provided as *Chem Abstr.*, 75:49022.	
VM	BB	ARTICO, M., "Non-Nucleoside Anti-HIV-1 Reverse Transcriptase Inhibitors (NNRTIs): A Chemical Survey From Lead Compounds to Selected Drugs for Clinical Trials," *Il Farmaco*, 51:305-331 (1996).	
VM	BC	ARTICO,M.,*et al.*,"3,4-Dihydro-2-alkoxy-6-benzyl-4-oxopyrimidines (DABO's): A new class of specific inhibitors of human immunodeficiency virus Type 1," *Antiviral Chem. Chemother.*, 4(6):361-368 (1993).	
VM	BD	BABA, M., *et al.*, "Preclinical evaluation of MKC-442, a highly potent and specific inhibitor of human immunodeficiency virus type 1 in vitro," *Antimicrobial Agents & Chemother.*, 38(4):688-692 (April 1994).	
VM	BE	BALZARINI, J. *et al.*, "Human immunodeficiency virus type 1 drug-resistance patterns with different 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine derivatives," *Molecular Pharmacology*, 44(4):694-701 (October 1993).	
VM	BF	BALZARINI, J. *et al.*, "Marked inhibitory activity of non-nucleoside reverse transcriptase inhibitors against human immunodeficiency virus type 1 combined with (-)2',3'-dideoxy-3'-thiacytidine," *Molecular Pharmacology*, 49:882-890(1996).	
VM	BG	BOTTA, M., *et al.*, "Synthesis, antimicrobial and antiviral activities of isotrimethoprim and some related derivatives," *Eur. J. Med. Chem.*, 27:251-257 (1992).	
VM	BH	BROWN, T., *et al.*, "Isocytosine H2-receptor histamine antagonists. I. Oxmetidine and related compounds," *Eur. J. Med. Chem.*, 23(1):53-62 (1988), provided as *Chem Abstr.*, 109:210995.	
VM	BI	COSTI, R., *et al.*, "Structure-activity relationship studies on potential non-nucleoside DABO-like inhibitors of HIV-1 reverse transcriptase," *Antiviral Chem. Chemother.*, 11(2):117-133 (2000).	
VM	BJ	FENNER, H. *et al.*, "Pyrimido(5,4-B)quinolines," *Arch. Pharm.*, 311(2):115-125 (1978) (Abstract only; *Chem Abstr.*, 88(21):152555q).	
VM	BK	LIU, X.Y., *et al.*, "Synthesis and interferon-inducing activity studies on the antiviral compounds of 2,5,6-trisubstituted-4(3H)-pyrimidine derivatives," *Yaoxue Xuebao*, 29(2):153-157 (1994), shown as *Chem. Abstr.*, 121:108682.	
VM	BL	MAI, A., *et al.*, "5-Alkyl-2-alkylthio-6-(2,6-dihalophenylmethyl)-3,4-dihydropyrimidin-4(3H)-ones," *J. Med. Chem.*, 42(4):619-627 (Bebruary 25, 1999).	
VM	BM	MAI, A., *et al.*, "Dihydro(alkylthio)(naphthylmethyl)oxopyrimidines: novel non-nucleoside reverse transcriptase inhibitors of the S-DABO series," *J. Med. Chem.*, 40(10):1447-1454 (May 9, 1997).	
VM	BN	MAI, A., *et al.*, "Synthesis and anti-HIV-1 activity of thioanalogues of dihydroalkoxybenzyloxypyrimidines,"*J. Med. Chem.*, 38(17):3258-3262 (August 18, 1995). XP000578131.	
VM	BO	MASSA, S., *et al.*, "Synthesis and antiviral activity of new 3,4-dihydro-2-alkoxy-6-benzyl-4-oxopyrimidines," *Antiviral Chem. Chemother.*, 6(1):1-8 (1995). *[Chem. Abstr. 122(1):122513c (1995)].*	

Examiner Signature	V. Berlinyuhamann	Date Considered	2/4/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box → ⊞

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Submitted for form 1449/PTO				*Complete if Known*	
				Application Number	10/689,982
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	October 21, 2003
				First Named Inventor	LaColla *et al.*
				Group Art Unit	1614
				Examiner	Unassigned
Sheet	3	of	3	Attorney Docket Number	06171.105003 IDX 1003 CON

3445054_2.DOC

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
VM	CA	NIZI *et al.*, "Solid phase synthesis of 2,6-disubstituted-4(3*H*)-pyrimidinones targeting HIV-1 reverse transcriptase," *Tetrahedron Letters*, 39:3307-3310 (1998).	
VM	CB	SBARDELLA, G., *et al.*, "Does the 2-methylthiomethyl substituent really confer high anti-HIV-1 activity to *S*-DABOS?" *Med. Chem. Res.*, 10(1):30-39 (2000).	
VM	CC	SBARDELLA, G., *et al.*, "Structure-activity relationship studies on new DABOS: effect of substitutions at pyrimidine C-5 and C-6 positions on anti-HIV-1 activity," *Antiviral Chem. Chemother.*, 12(1):37-50 (January 2001).	
VM	CD	TANAKA, H., *et al.*, "Synthesis and antiviral activity of 6-benzyl analogs of 1-[(2-hydroxyethoxy)methyl]-6-(phenylthio)thymine (HEPT) as potent and selective anti-HIV-1 agents," *J. Med. Chem.*, 38(15):2860-2865 (July 21, 1995).	
VM	CE	TRAMONTANO, E., *et al.*, "Characterization of the anti-HIV-1 activity of 3,4-dihydro-2-alkoxy-6-benzyl-4-oxopyrimidines (DABOs), new non-nucleoside reverse transcriptase inhibitors," *Microbiologica*, 17(4):269-279 (October 1994).	
VM	CF	WAGLE, M.V., *et al.*, "Tumor inhibitory studies on pyrimidines. 1. 2-Amino-4-hydroxy-5-(β-hydroxyethyl)-6-(alkyl or aryl)pyrimidines," *Proc. Indian Acad. Sci., Sect. B*, 70(1):9-14 (1969), provided as *Chem Abstr.*, 71:111298.	

Examiner Signature	V. Balasubramanian	Date Considered	9/4/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.